

# Mari Yotsu-Yamashita

## List of Publications by Citations

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papers

2,146  
citations

29  
h-index

44  
g-index

79  
ext. papers

2,492  
ext. citations

4.6  
avg, IF

4.87  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 75 | Electrospray ionization mass spectrometry of tetrodotoxin and its analogs: liquid chromatography/mass spectrometry, tandem mass spectrometry, and liquid chromatography/tandem mass spectrometry. <i>Analytical Biochemistry</i> , <b>2001</b> , 290, 10-7  | 3.1  | 107       |
| 74 | Purification, characterization, and cDNA cloning of a novel soluble saxitoxin and tetrodotoxin binding protein from plasma of the puffer fish, <i>Fugu pardalis</i> . <i>FEBS Journal</i> , <b>2001</b> , 268, 5937-46  |      | 98        |
| 73 | The structure of zetekitoxin AB, a saxitoxin analog from the Panamanian golden frog <i>Atelopus zeteki</i> : a potent sodium-channel blocker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 4346-51   | 11.5 | 86        |
| 72 | Toxicity of Dangerous Prey: Variation of Tetrodotoxin Levels Within and Among Populations of the Newt <i>Taricha granulosa</i> . <i>Journal of Chemical Ecology</i> , <b>1999</b> , 25, 2161-2175   | 2.7  | 85        |
| 71 | First identification of 5,11-dideoxytetrodotoxin in marine animals, and characterization of major fragment ions of tetrodotoxin and its analogs by high resolution ESI-MS/MS. <i>Marine Drugs</i> , <b>2013</b> , 11, 2799-813  | 6    | 79        |
| 70 | CHEMISTRY OF PUFFER FISH TOXIN. <i>Toxin Reviews</i> , <b>2001</b> , 20, 51-66  |      | 74        |
| 69 | Chemical and Etiological Studies on Tetrodotoxin and Its Analogs. <i>Toxin Reviews</i> , <b>1996</b> , 15, 81-90  |      | 72        |
| 68 | Ecological functions of tetrodotoxin in a deadly polyclad flatworm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 3176-9  | 11.5 | 68        |
| 67 | Hydrophilic interaction liquid chromatography-electrospray ionization mass spectrometry of tetrodotoxin and its analogs. <i>Analytical Biochemistry</i> , <b>2006</b> , 352, 142-4  | 3.1  | 63        |
| 66 | Accumulation of tetrodotoxin and 4,9-anhydrotetrodotoxin in cultured juvenile kusafugu <i>Fugu niphobles</i> by dietary administration of natural toxic komonfugu <i>Fugu poecilonotus</i> liver. <i>Toxicon</i> , <b>2008</b> , 51, 1269-73  | 2.8  | 60        |
| 65 | Interactions of the C-11 hydroxyl of tetrodotoxin with the sodium channel outer vestibule. <i>Biophysical Journal</i> , <b>2003</b> , 84, 287-94  | 2.9  | 58        |
| 64 | 5,6,11-trideoxytetrodotoxin from the puffer fish, <i>fugu poecilonotus</i> . <i>Tetrahedron Letters</i> , <b>1995</b> , 36, 9329-9332   |      | 58        |
| 63 | Binding properties of (3)H-PbTx-3 and (3)H-saxitoxin to brain membranes and to skeletal muscle membranes of puffer fish <i>Fugu pardalis</i> and the primary structure of a voltage-gated Na(+) channel alpha-subunit (fMNa1) from skeletal muscle of <i>F. pardalis</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 267, 403-12 | 3.4  | 54        |
| 62 | Two Cytochrome P450 Monooxygenases Catalyze Early Hydroxylation Steps in the Potato Steroid Glycoalkaloid Biosynthetic Pathway. <i>Plant Physiology</i> , <b>2016</b> , 171, 2458-67  | 6.6  | 49        |
| 61 | Isolation and structural determination of the first 8-epi-type tetrodotoxin analogs from the newt, <i>Cynops ensicauda popei</i> , and comparison of tetrodotoxin analogs profiles of this newt and the puffer fish, <i>Fugu poecilonotus</i> . <i>Marine Drugs</i> , <b>2012</b> , 10, 655-67  | 6    | 49        |
| 60 | LC/MS analysis of tetrodotoxin and its deoxy analogs in the marine puffer fish <i>Fugu niphobles</i> from the southern coast of Korea, and in the brackishwater puffer fishes <i>Tetraodon nigroviridis</i> and <i>Tetraodon biocellatus</i> from Southeast Asia. <i>Marine Drugs</i> , <b>2010</b> , 8, 1049-58  | 6    | 48        |
| 59 | 6,11-Dideoxytetrodotoxin from the puffer fish, <i>Fugu pardalis</i> . <i>Toxicon</i> , <b>2007</b> , 50, 947-51   | 2.8  | 47        |

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|----|--|------|----|
| 58 | Variability of tetrodotoxin and of its analogues in the red-spotted newt, <i>Notophthalmus viridescens</i> (Amphibia: Urodela: Salamandridae). <i>Toxicon</i> , <b>2012</b> , 59, 257-64   | 2.8  | 44 |
| 57 | Tetrodotoxin and its analogue 6-epitetrodotoxin in newts ( <i>Triturus</i> spp.; Urodela, Salamandridae) from southern Germany. <i>Toxicon</i> , <b>2007</b> , 50, 306-9   | 2.8  | 44 |
| 56 | Isolation and structural assignment of 5-deoxytetrodotoxin from the puffer fish <i>Fugu poecilonotus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1999</b> , 63, 961-3   | 2.1  | 44 |
| 55 | Synthesis and identification of proposed biosynthetic intermediates of saxitoxin in the cyanobacterium <i>Anabaena circinalis</i> (TA04) and the dinoflagellate <i>Alexandrium tamarense</i> (Axat-2). <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 3016-20 | 3.9  | 42 |
| 54 | Optimization of simultaneous analysis of tetrodotoxin, 4-epitetrodotoxin, 4,9-anhydrotetrodotoxin, and 5,6,11-trideoxytetrodotoxin by hydrophilic interaction liquid chromatography tandem mass spectrometry. <i>Forensic Toxicology</i> , <b>2011</b> , 29, 61-64           | 2.6  | 39 |
| 53 | Occurrence of 11-oxotetrodotoxin in the red-spotted newt, <i>Notophthalmus viridescens</i> , and further studies on the levels of tetrodotoxin and its analogues in the newts. <i>Toxicon</i> , <b>2003</b> , 41, 893-7  | 2.8  | 35 |
| 52 | C5-C10 directly bonded tetrodotoxin analogues: possible biosynthetic precursors of tetrodotoxin from newts. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 14546-9   | 16.4 | 33 |
| 51 | Differential binding of tetrodotoxin and its derivatives to voltage-sensitive sodium channel subtypes (Na 1.1 to Na 1.7). <i>British Journal of Pharmacology</i> , <b>2017</b> , 174, 3881-3892  | 8.6  | 33 |
| 50 | Examination of transformation among tetrodotoxin and its analogs in the living cultured juvenile puffer fish, kusafugu, <i>Fugu niphobles</i> by intramuscular administration. <i>Toxicon</i> , <b>2008</b> , 52, 714-20   | 2.8  | 33 |
| 49 | Isolation of 6-deoxytetrodotoxin from the pufferfish, <i>Takifugu pardalis</i> , and a comparison of the effects of the C-6 and C-11 hydroxy groups of tetrodotoxin on its activity. <i>Journal of Natural Products</i> , <b>2014</b> , 77, 1000-4                           | 4.9  | 32 |
| 48 | Distribution of homologous proteins to puffer fish saxitoxin and tetrodotoxin binding protein in the plasma of puffer fish and among the tissues of <i>Fugu pardalis</i> examined by Western blot analysis. <i>Toxicon</i> , <b>2010</b> , 55, 1119-24                       | 2.8  | 32 |
| 47 | Cyclic Guanidine Compounds from Toxic Newts Support the Hypothesis that Tetrodotoxin is Derived from a Monoterpene. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8728-31   | 16.4 | 32 |
| 46 | Biological activity of 8,11-dideoxytetrodotoxin: lethality to mice and the inhibitory activity to cytotoxicity of ouabain and veratridine in mouse neuroblastoma cells, Neuro-2a. <i>Toxicon</i> , <b>2003</b> , 42, 557-60  | 2.8  | 27 |
| 45 | Spiro Bicyclic Guanidino Compounds from Pufferfish: Possible Biosynthetic Intermediates of Tetrodotoxin in Marine Environments. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 7250-7258  | 4.8  | 26 |
| 44 | Localization of pufferfish saxitoxin and tetrodotoxin binding protein (PSTBP) in the tissues of the pufferfish, <i>Takifugu pardalis</i> , analyzed by immunohistochemical staining. <i>Toxicon</i> , <b>2013</b> , 72, 23-8   | 2.8  | 26 |
| 43 | Synthesis of a tricyclic bisguanidine compound structurally related to saxitoxin and its identification in paralytic shellfish toxin-producing microorganisms. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 7835-40   | 4.8  | 26 |
| 42 | Biosynthetic route towards saxitoxin and shunt pathway. <i>Scientific Reports</i> , <b>2016</b> , 6, 20340   | 4.9  | 26 |
| 41 | Synthesis of skeletal analogues of saxitoxin derivatives and evaluation of their inhibitory activity on sodium ion channels Na(V)1.4 and Na(V)1.5. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 12144-52  | 4.8  | 25 |

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|----|---|------|----|
| 40 | Six domoic acid related compounds from the red alga, <i>Chondria armata</i> , and domoic acid biosynthesis by the diatom, <i>Pseudo-nitzschia multiseriata</i> . <i>Scientific Reports</i> , <b>2018</b> , 8, 356   | 4.9  | 22 |
| 39 | Synthesis of 5- and 8-deoxytetrodotoxin. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 1922-32   | 4.5  | 20 |
| 38 | Synthesis of saxitoxin derivatives bearing guanidine and urea groups at C13 and evaluation of their inhibitory activity on voltage-gated sodium channels. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 6642-9                                    | 2.9  | 20 |
| 37 | Mutual binding inhibition of tetrodotoxin and saxitoxin to their binding protein from the plasma of the puffer fish, <i>Fugu pardalis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2002</b> , 66, 2520-4  | 2.1  | 20 |
| 36 | Spectroscopic and structural investigation on intermediates species structurally associated to the tricyclic bisguanidine compound and to the toxic agent, saxitoxin. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1119, 25-38                           | 3.4  | 20 |
| 35 | Synthesis and Identification of Key Biosynthetic Intermediates for the Formation of the Tricyclic Skeleton of Saxitoxin. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5327-5331   | 16.4 | 19 |
| 34 | The presence of 12-Deoxydecarbamoylsaxitoxin in the Japanese toxic dinoflagellate <i>Alexandrium</i> determined by simultaneous analysis for paralytic shellfish toxins using HILIC-LCMS/MS. <i>Harmful Algae</i> , <b>2015</b> , 49, 58-67                       | 5.3  | 18 |
| 33 | Tetrodotoxin in Asian newts ( <i>Salamandridae</i> ). <i>Toxicon</i> , <b>2017</b> , 134, 14-17   | 2.8  | 17 |
| 32 | Confirmation of the absence of tetrodotoxin and its analogues in the juveniles of the Japanese fire-bellied newt, <i>Cynops pyrrhogaster</i> , captive-reared from eggs in the laboratory using HILIC-LC-MS. <i>Toxicon</i> , <b>2015</b> , 101, 101-5            | 2.8  | 17 |
| 31 | Total Synthesis of 11-Saxitoxinethanoic Acid and Evaluation of its Inhibitory Activity on Voltage-Gated Sodium Channels. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11600-3   | 16.4 | 17 |
| 30 | Tetrodotoxin and Its Analogues in the Pufferfish <i>Arothron hispidus</i> and <i>A. nigropunctatus</i> from the Solomon Islands: A Comparison of Their Toxin Profiles with the Same Species from Okinawa, Japan. <i>Toxins</i> , <b>2015</b> , 7, 3436-54         | 4.9  | 16 |
| 29 | Column switching combined with hydrophilic interaction chromatography-tandem mass spectrometry for the analysis of saxitoxin analogues, and their biosynthetic intermediates in dinoflagellates. <i>Journal of Chromatography A</i> , <b>2016</b> , 1474, 109-120 | 4.5  | 15 |
| 28 | Isolation and Biological Activity of 8-Epitetrodotoxin and the Structure of a Possible Biosynthetic Shunt Product of Tetrodotoxin, Cep-226A, from the Newt <i>Cynops ensicauda popei</i> . <i>Journal of Natural Products</i> , <b>2019</b> , 82, 1656-1663       | 4.9  | 14 |
| 27 | Metabolomic study of saxitoxin analogues and biosynthetic intermediates in dinoflagellates using N-labelled sodium nitrate as a nitrogen source. <i>Scientific Reports</i> , <b>2019</b> , 9, 3460  | 4.9  | 13 |
| 26 | Dietary administration of tetrodotoxin and its putative biosynthetic intermediates to the captive-reared non-toxic Japanese fire-bellied newt, <i>Cynops pyrrhogaster</i> . <i>Toxicon</i> , <b>2017</b> , 137, 78-82   | 2.8  | 12 |
| 25 | Selective blocking effects of 4,9-anhydrotetrodotoxin, purified from a crude mixture of tetrodotoxin analogues, on NaV1.6 channels and its chemical aspects. <i>Marine Drugs</i> , <b>2015</b> , 13, 984-95   | 6    | 12 |
| 24 | Pufferfish Saxitoxin and Tetrodotoxin Binding Protein (PSTBP) Analogues in the Blood Plasma of the Pufferfish , , , and. <i>Marine Drugs</i> , <b>2018</b> , 16,  | 6    | 11 |
| 23 | The voltage-gated sodium ion channel inhibitory activities of a new tetrodotoxin analogue, 4,4a-anhydrotetrodotoxin, and three other analogues evaluated by colorimetric cell-based assay. <i>Toxicon</i> , <b>2016</b> , 119, 72-6                               | 2.8  | 10 |

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|----|--|-----|----|
| 22 | Total Syntheses and Determination of Absolute Configurations of Cep-212 and Cep-210, Predicted Biosynthetic Intermediates of Tetrodotoxin Isolated from Toxic Newt. <i>Organic Letters</i> , <b>2019</b> , 21, 780-784                         | 6.2 | 10 |
| 21 | C5-C10 Directly Bonded Tetrodotoxin Analogues: Possible Biosynthetic Precursors of Tetrodotoxin From Newts. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 14774-14777  | 3.6 | 9  |
| 20 | Identification of a Novel Saxitoxin Analogue, 12-Deoxygonyautoxin 3, in the Cyanobacterium, (TA04). <i>Toxins</i> , <b>2019</b> , 11,  | 4.9 | 8  |
| 19 | Resurgent-like currents in mouse vas deferens myocytes are mediated by NaV1.6 voltage-gated sodium channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2012</b> , 464, 493-502  | 4.6 | 8  |
| 18 | Structures of -Hydroxy-Type Tetrodotoxin Analogues and Bicyclic Guanidinium Compounds Found in Toxic Newts. <i>Journal of Natural Products</i> , <b>2020</b> , 83, 2706-2717   | 4.9 | 8  |
| 17 | Temporal Variation of the Profile and Concentrations of Paralytic Shellfish Toxins and Tetrodotoxin in the Scallop, Cultured in a Bay of East Japan. <i>Marine Drugs</i> , <b>2019</b> , 17,   | 6   | 8  |
| 16 | Cyclic Guanidine Compounds from Toxic Newts Support the Hypothesis that Tetrodotoxin is Derived from a Monoterpene. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 8870-8873  | 3.6 | 7  |
| 15 | Possible Biosynthetic Products and Metabolites of Kainic Acid from the Red Alga <i>Digenea simplex</i> and Their Biological Activity. <i>Journal of Natural Products</i> , <b>2019</b> , 82, 1627-1633   | 4.9 | 6  |
| 14 | Synthesis of C12-Keto Saxitoxin Derivatives with Unusual Inhibitory Activity Against Voltage-Gated Sodium Channels. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 2025-2033  | 4.8 | 6  |
| 13 | Total Synthesis of 11-Saxitoxinethanoic Acid and Evaluation of its Inhibitory Activity on Voltage-Gated Sodium Channels. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 11772-11775   | 3.6 | 5  |
| 12 | Quantitation of Tetrodotoxin and Its Analogues with a Combination of Liquid Chromatography-Tandem Mass Spectrometry and Quantitative H-NMR Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 12911-12917     | 5.7 | 5  |
| 11 | Identification of Tricyclic Guanidino Compounds from the Tetrodotoxin-Bearing Newt. <i>Organic Letters</i> , <b>2021</b> , 23, 3513-3517   | 6.2 | 3  |
| 10 | Tetrodotoxin Framework Construction from Linear Substrates Utilizing a Hg(OTf)-Catalyzed Cycloisomerization Reaction: Synthesis of the Unnatural Analogue 11--6,7,8-Trideoxytetrodotoxin. <i>Organic Letters</i> , <b>2021</b> , 23, 1703-1708 | 6.2 | 3  |
| 9  | Geographic range expansion of tetrodotoxin in amphibians - First record in <i>Atelopus hoogmoedi</i> from the Guiana Shield. <i>Toxicon</i> , <b>2018</b> , 150, 175-179   | 2.8 | 3  |
| 8  | Synthesis and Identification of Key Biosynthetic Intermediates for the Formation of the Tricyclic Skeleton of Saxitoxin. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 5411-5415   | 3.6 | 2  |
| 7  | SxtA localizes to chloroplasts and changes to its 3'RTR may reduce toxin biosynthesis in non-toxic <i>Alexandrium catenella</i> (Group I). <i>Harmful Algae</i> , <b>2021</b> , 101, 101972  | 5.3 | 2  |
| 6  | Acquiring toxicity of a newt, <i>Cynops orientalis</i> . <i>Toxicon</i> , <b>2021</b> , 198, 32-35   | 2.8 | 2  |
| 5  | Effects of 4,9-anhydrotetrodotoxin on voltage-gated Na channels of mouse vas deferens myocytes and recombinant Na1.6 channels. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2018</b> , 391, 489-499                              | 3.4 | 1  |

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| 4 | Two new skeletal analogues of saxitoxin found in the scallop, <i>Patinopecten yessoensis</i> , as possible metabolites of paralytic shellfish toxins. <i>Chemosphere</i> , <b>2021</b> , 278, 130224                             | 8.4 | 1 |
| 3 | A study on the genetic population structure and the tetrodotoxin content of rough-skinned newts, <i>Taricha granulosa</i> (Salamandridae), from their northern range of distribution.. <i>Toxicon</i> , <b>2021</b> , 206, 38-41 | 2.8 | 0 |
| 2 | Preparation of domoic acid analogues using a bioconversion system, and their toxicity in mice. <i>Organic and Biomolecular Chemistry</i> , <b>2021</b> , 19, 7894-7902   | 3.9 | 0 |
| 1 | Chemical Ecology of the North American Newt Genera <i>Taricha</i> and <i>Notophthalmus</i> .. <i>Progress in the Chemistry of Organic Natural Products</i> , <b>2022</b> , 118, 101-130  | 1.9 |   |